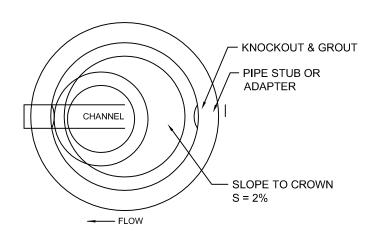
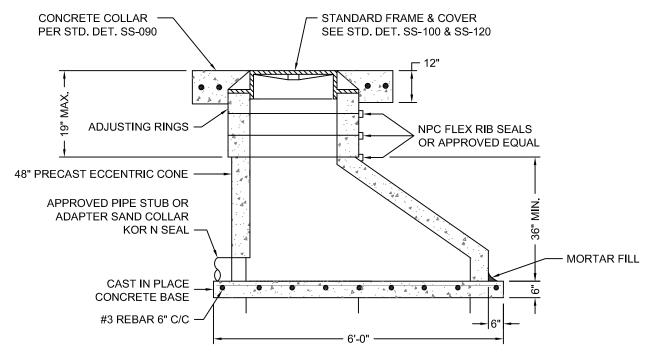
E	BASE REINFORCING STEEL in²/ft. IN EACH DIRECTION	INTEGRAL BASE	0.15	.019	.025	0.24	.029	0.29
		SEPARATE BASE	0.23	0.19	0.25	0.35	0.39	0.39
NSION TABL	MINIMUM DISTANCE BETWEEN KNOCKOUTS		8	.8	.8	12"	12"	12"
MANHOLE DIMENSION TABLE	MAXIMUM KNOCKOUT SIZE		36"	42"	48"	09	72"	.84"
	BASE THICKNESS		9	8	.8	8	12"	12"
	WALL		4"	4.5"	5"	9	8	-8
	4	E	48"	54"	.09	72"	84"	.96





NOTES:

- FOR USE IN DEAD-END SEWER LINES ONLY, NO FLAT TOP MANHOLES WILL BE ALLOWED WITHOUT CITY ENGINEER APPROVAL.
- WATER TIGHT MANHOLE INSERT REQUIRED, SEE STANDARD DETAIL SS-130
- 3. CAST IN PLACE CONCRETE BASE TO BE POURED ON NATIVE GROUND UNLESS OTHERWISE DIRECTED BY THE ENGINEER DUE TO POOR SOIL CONDITIONS.
- 4. GROUTING SHALL BE SUFFICIENT TO PREVENT LEAKS BETWEEN THE PRE-CAST COMPONENTS OF THE COMPLETED STRUCTURE & SHALL BE PERFORMED INSIDE, BETWEEN & OUTSIDE OF ALL RISERS, JOINTS & PIPE PENETRATIONS.



48" SHALLOW CONE MANHOLE

STANDARD PLAN: CITY ENGINEER APPROVAL: Longview: C.B.

Kelso: S.Z.